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## Industries Served : General Product Assembly

### Adhesives: General Assembly

#### High Performance: It's not just Science - It's Solutions

Bondmaster's ability to bring adhesive solutions to a virtually endless list of applications is the direct result of decades of on-going product research and development. Bondmaster's commitment to R&D has resulted in the development of several high-performance adhesive and sealant formulations from a wide range of chemistries.

Bondmaster knows the commercial and technical demands of your application are unique. Let Bondmaster help you make your assembly a success with adhesive formulations specific to your application. Bondmaster will provide multiple solution options detailing the adhesive, its dispensing, integration into production, curing and post-launch evaluation.

- **2-Part Epoxy Adhesives**

Bondmaster's 2-part epoxies are made up of a resin and a hardener component. The specific mix ratio of these components is dependent on the particular application. Bondmaster's line of epoxies has a long history of exceptional performance in the marketplace. Most notably, Bondmaster's 2-part epoxies have provide high strength, up to 3,770 psi shear strength, as well as the ability to join virtually all surfaces; including metals, composites, ferrite, cementitious products, and plastics.

Bondmaster's commitment to research and development has built upon the advantages of epoxies by formulating in features that bring benefit to today's manufacturing environment. Bondmaster's full line of epoxy adhesives offer UV curing epoxies to reduce solvent concerns, fluorescent epoxies for in-line QC, low temperature cure epoxies to eliminate thermal oven curing, two-part epoxies in pre-measured packaging, and radio-opaque epoxy formulations. For more information regarding Bondmaster's 2-part epoxy adhesives, [click here](#).

- **Surface Activated Toughened Acrylic Adhesives**

Bondmaster's full line of surface activated structural acrylic adhesives have been formulated specifically for the unique requirements of small gap bonding in component assembly. The viscosity of these formulations is ideal for bonding structural components, such as stiffeners where gap tolerances are extremely tight. The fast setting speed; as fast as 15 seconds, maximizes production. Ambient temperature curing eliminates the need for costly ovens.

Bondmaster's surface activated structural acrylic adhesives present superior shear strength, up to 5,075 psi, and peel resistance. The combination of their exceptional strength, and ability to join dissimilar metals has made Bondmaster acrylic adhesives the preferred choice for eliminating such



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traditional joining methods as rivets or welding. For more information regarding Bondmaster's surface activated toughened acrylic adhesives, [click here](#).

- **2-part Structural Acrylic Adhesives**  
Bondmaster's adhesive formulation expertise has produced a line of 2-part toughened acrylic adhesives with industry-proven strength and durability.

Knowing the importance of efficient assembly processes, Bondmaster's 2-part acrylic adhesives speed production with a 30 second set up time, and a long usable life. Specifically developed for large gap applications; up to 4 millimeters, Bondmaster's 2-part structural acrylics provide such assembly benefits as a 20 minute open time; ideal for working large panel applications, and ambient temperature curing. Bondmaster also has proprietary 2-part structural acrylic formulations with exceptional adhesion to surface treated steel and aluminum substrates. For more information regarding Bondmaster's 2-part acrylic adhesives, [click here](#).

- **Ultra-Violet/Visible Light Cure Adhesives (UV/VL)**  
Bondmaster's line of UV/VL cure adhesives present superior production benefits for assembly operations. The Bondmaster on-demand cure capability is the fastest cure speed of any adhesive family. The wide range of viscosities; from water-thin for applications such as filling mechanical locks in needle bonding, to paste-like for large area glass bonding in automotive applications, are just two examples of Bondmaster's UV/VL cure adhesive production benefits.

Bondmaster's introduction of new cationic formulations provides additional curing after the UV light source has been removed, increasing cure speed and penetration, particularly for non-UV transparent substrates. Cure speeds range from 3 seconds to 16 seconds. Gap fill sizes range from 0.005 inches to 0.010 inches. For more information regarding Bondmaster's UV/VL adhesives, [click here](#).

- **MS Polymer**  
Bondmaster's product development philosophy has always been driven by the needs of the market. As bonding applications required more adhesive flexibility and gap fillability, Bondmaster integrated these properties into a line of hybrid adhesive formulations. These highly flexible properties make these adhesives perfectly suited for sealant applications. The excellent gap fill and adhesion of these Bondmaster adhesives provide excellent bonding in structural applications, and panel work; even when joining dissimilar materials.

Bondmaster's flexible hybrid adhesives cure by reacting with atmospheric moisture. This formulation offers an instant surface grab capability while allowing for an extended working time of up to 3 hours. Full cure is not achieved for several days after assembly of the parts. For more information regarding Bondmaster's flexible hybrid adhesives, [click here](#).

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